



June 9, 2011

Weekly Meeting Memo CSE-04

MEMO

TO: Cliff Ogburn, Town of Nags Head, NC

FROM: Haiqing L. Kaczowski (PE) and Tim W. Kana (PG)

RE: Nags Head Beach Nourishment Project (CSE 2203)

**Weekly Project Meeting of the Town, the Contractor, and the Engineer**

The weekly project meeting of the Town of Nags Head, the Contractor (Great Lakes Dredge & Dock, referred to as GLDD) and the Engineer (Coastal Science & Engineering, referred to as CSE) was held from 9:10 a.m. to 10:00 a.m. on Thursday, 9 June 2011, at the Town Hall. Items discussed during the meeting are summarized herein.

1) GLDD's Production Updates

*Pumping has been efficient since it started on May 24<sup>th</sup>. The Liberty Island pumped out approximately 7 to 9 loads per day. She has finished 92 loads with a reported volume of 432,869 cubic yards of sand before she transited to a dock for repairs on Tuesday, June 7<sup>th</sup>. Due to the extensive repairs needed to be done, the Liberty Island will be down for a few more days and will most likely be back to the site on Tuesday, June 14<sup>th</sup>. In order to allow the public a larger area of beach, GLDD is minimizing the restricted area covered by their on site equipment.*

*The Liberty Island's working section and next landing point have also been revised. Once she is back from the repairs, she will resume pumping at station 755+00 and proceed south towards Jennett's Pier at station 777+00. Her next submerged pipe landing point has been moved south from station 794+00 to station 825+00 which is between Hargrove and Seabird Streets. The Liberty Island will start from station 825+00 and will pump sand northward up to Jennett's Pier, next it will turn and proceed southward until it meets the Texas around station 875+00.*



*The Texas's arrival date has been postponed for two days. She will be on site and start pumping on Tuesday, June 14<sup>th</sup>. Her submerged pipeline near station 960+00 will be in place by this weekend. She will first proceed northward up to station 875+00 where she is expected to meet with the southernmost section that the Liberty Island will be finishing.*

*GLDD has decided to continue to use the Liberty Island to finish the project instead of having the other two smaller hopper dredges, the Dodge Island and the Padre Island, on site. The Liberty Island is reported to have a dredging and pumping capacity that is approximately equal to the combined total of these two smaller dredges. She will use two more submerged pipe landing points around station 645+00 and station 545+00 (respectively) to finish the northern part of the project.*

*GLDD has conducted final grading on the completed areas in compliance with the permits. Final tilling will be performed at the end of the project in accordance with the permit requirements.*

2) GLDD's Payment Application #1

*GLDD submitted their first payment application on June 6<sup>th</sup>. Supporting drawings and volume tables were delivered to CSE's office at Nags Head on June 8<sup>th</sup>. Sixty percent of the mobilization costs were claimed in this application in line with the contract agreement, and a volume of 188,038 cubic yards representing the sand placement from station 692+00 to station 726+00 were also included in this application. CSE is in the process of verifying the pay quantity and is expected to issue a conditional approval within ten days.*

3) Dredging Quality Management (DQM) Report from the USACE

*A DQM report from the USACE Mobile District Operation Division was received on June 7<sup>th</sup>. It is a summary of the Liberty Island's profile between May 31<sup>st</sup> and June 6<sup>th</sup>. Formerly known as Silent Inspector (SI), the DQM program verifies, collects, and stores dredging instrumentation data for the USACE and provides tools to interpret and utilize this data for the USACE dredging management. Three issues were addressed in an email which was sent along with the report. These issues and GLDD's response are discussed below:*



*(1) Short data gaps within loads*

*The data gaps may be caused when the positioning computer is taken out of active mode in order to install new hydro survey background drawings or change any settings for the dredge displays. The minimum rate of good data return required by the DQM specification is 95 percent. Despite the 20 gaps noted in the report over this 7 day period, the good data return rate is over 99.9 percent, which is well within specified ranges.*

*(2) Noisy ullage sensor data*

*The ullage sensors are the ultrasonic sensors that measure the level of water or sand in the hopper dredge. They are located out over the dredge where the sand and water discharges into the dredge. The sand and water mist data can be noisy when the sensors are not clean. Despite some spikes in the record, they can still provide good data.*

*(3) Tide sensor reporting outliers*

*The tide sensor isn't installed on board the dredge. A reported value may come from a gauge onshore or other sources. It could be post processed if necessary. GLDD will investigate a little more on this issue.*

*GLDD representatives stated that in light of their past experience, the present DQM report they received is extremely good.*

**4) Non-Capture Trawling Updates**

*Non-capture trawling updates were received on June 8<sup>th</sup>. The trawler Catina Renea worked at the borrow area 24 hours per day for over 16 consecutive days before going dockside for fuel, water and groceries on June 7<sup>th</sup>. She will return to the borrow site in advance of the Liberty Island. She has made 155 tows and 614 sweeps since the trawling started. Clearence skates, rays and crabs have been documented, and 3 loggerheads have been sighted at the surface.*

**5) Sandbag Issues**

*An official from the Division of Coastal Management of North Carolina (NCDCM) gave the attendees a brief update on the sandbag removal status. Discussions with the property owners with sandbags have been continued over the past week. Some owners indicated that they will*



*remove the sandbags; some indicated they will not; and some will wait until the construction gets closer to their properties before they remove them.*

*In accordance with GLDD's schedule, NCDCM officials will continue to place CAMA stakes along the toe lines of sandbags that are subject to removal as the construction progresses.*

*The NCDCM official indicated that CAMA will investigate the recently reported sandbag issue in front of the Comfort Inn.*

6) Easement Updates

*The Superior Court has ruled in favor of the Town in a lawsuit filed by 44 property owners challenging the Town's process for obtaining easements for this project. The number of un-acquired easements has been further reduced to less than ten.*

7) Using National Park Service (NPS) Ramp #1 as Extreme Emergency Exit

*The NPS office has reviewed the beach nourishment plan and the request for using Ramp # 1 as an extreme emergency exit. The ramp should not be used for equipment ingress and egress. They responded by email on June 4<sup>th</sup> that the request has been approved. A formal special use permit will be issued to the Town of Nags Head by the Outer Banks Group.*

8) Anticipated events and schedule for next week

*Thursday, June 16<sup>th</sup>, at 9 a.m. — Weekly project meeting at the Town Hall  
(The Town, the Contractor, and the Engineer are expected to attend.)*

Enclosure: List of attendees and their contact information